

CLAIMS:

1. A recording medium comprising:
 - an uncompressed information record area where uncompressed information which is obtained by encoding reproduction information to be reproduced in an uncompressed state;
 - a first control information area where uncompressed information control information for controlling the uncompressed information is recorded;
 - a compressed information record area where compressed information obtained by encoding another reproduction information including at least a content same as a part of the reproduction information; and
 - a second control information area where compressed information control information for controlling the compressed information is recorded, the compressed information control information including corresponding relationship information for showing a corresponding relationship between the compressed information and the uncompressed information.
2. A recording medium according to Claim 1, wherein the corresponding relationship information is provided to search the uncompressed information which is recorded while referring to the compressed information control information.
3. A recording medium according to Claim 1 or 2, wherein the compressed information control information includes

copy control information representing a content of copy restriction applied when the compressed information is copied to another recording medium.

4. A recording medium according to any one of Claims 1 to 3, wherein

the compressed information control information includes copy control information representing whether or not the uncompressed information corresponding to the compressed information is that admitted to copy to another recording medium.

5. A recording medium according to any one of Claims 1 to 4, wherein

the compressed information is that can be freely copied to another recording medium.

6. A recording medium according to any one of Claims 1 to 5, wherein

the compressed information control information includes reproduction control information used when the uncompressed information is reproduced.

7. An information recording apparatus comprising:

a non-compression encode means which generates uncompressed information by encoding reproduction information to be recorded and reproduced in an uncompressed state;

a first control information generation means which

generates uncompressed information control information for controlling the uncompressed information thus generated;

a compression encode means which generates another reproduction information including information having a content same as at least a part of the reproduction information;

a second control information generation means which generates compressed information control information for controlling the compressed information thus generated, the compressed information control information including corresponding relationship information representing the uncompressed information and the compressed information; and

a record means which records the uncompressed information, the uncompressed information control information, the compressed information, and the compressed information control information, respectively thus generated, to a recording medium.

8. An information recording apparatus according to Claim 7, wherein

the corresponding relationship information is that provided to search the uncompressed information thus recorded while the compressed information control information is referred to.

9. An information recording apparatus according to Claim 7 or 8, wherein

the compressed information control information includes copy control information representing a content of copy

restriction applied when the compressed information is copied to another recording medium.

10. An information recording apparatus according to any one of Claim 7 to 9, wherein

the compressed control information includes copy control information representing whether or not the uncompressed information corresponding to the compressed information is the uncompressed information admitted to copy to another recording medium.

11. An information recording apparatus according to any one of Claim 7 to 10, wherein

the compressed information is that can be freely copied to another recording medium.

12. An information recording apparatus according to any one of Claim 7 to 11, wherein

the compressed information control information includes reproduction control information used when the uncompressed control information is reproduced.

13. An information reproducing apparatus provided to reproduce at least one of the compressed information and the uncompressed information out of the recording medium described in any one of Claims 1 to 6, comprising:

a selection means used for selecting any one of a reproduction process of extracting the reproduction information

out of the recording medium and reproducing thus extracted and a copy process of detecting the reproduction information out of the recording medium and copying thus detected to another recording medium;

a reproducing means which detects the uncompressed information corresponding to the reproduction information, which should be reproduced, out of the recording medium and reproduce thus detected when execution of the reproduction process is selected by the selection means; and

a detection means which detects the compressed information corresponding to the reproduction information, which should be reproduced, out of the recording medium and providing thus detected to the copy process.

14. An information recording method comprising:

non-compression encode step of encoding reproduction information which should be recorded and reproduced in an uncompressed state and generating the uncompressed information;

a first control information generation step of generating uncompressed information control information provided to control the uncompressed information thus generated;

a compression and encode step of encoding another reproduction information including information having a content same as at least a part of the reproduction information and generating compressed information;

a second control information generation step of generating compressed information control information which is provided

for controlling the compressed information thus generated and represents a corresponding relationship between the uncompressed information and the compressed information; and

a record step of recording the uncompressed information, the uncompressed information control information, the compressed information, and the compressed information control information, respectively thus generated, to a recording medium.

15. An information recording method according to any one of Claims 1 to 6, comprising:

a selection step of selecting any one of a reproduction process of detecting the reproduction information out of the recording medium and reproduce thus detected and a copy process of detecting the reproduction information out of the recording medium and copying thus detected to another recording medium;

a reproduction step of detecting the uncompressed information corresponding to the reproduction information which should be reproduced out of the recording medium and replaying thus detected when execution of the reproduction process is selected in the selection step; and

a detection step of detecting the compressed information corresponding to the reproduction information which should be copied and providing thus detected to the copy process when execution of the copy process is selected in the selection step.

16. An information recording program comprising:

non-compression encode means for encoding reproduction

information in an uncompressed state and generating the uncompressed information;

a first control information generation means for generating uncompressed information control information provided to control the uncompressed information thus generated;

a compression and encode means of encoding another reproduction information including information having a content same as at least a part of the reproduction information and generating compressed information;

a second control information generation means for generating compressed information control information which is provided for controlling the compressed information thus generated and represents a corresponding relationship between the uncompressed information and the compressed information; and

a record means for recording the uncompressed information, the uncompressed information control information, the compressed information, and the compressed information control information, respectively thus generated, to the recording medium.

17. An information reproducing program for making a reproducing computer included in the information reproducing apparatus which reproduces any one of the compressed information and the uncompressed information in the recording medium according to any one of claims 1 to 6, comprising:

a selection means for selecting any one of a reproduction

process of detecting the reproduction information out of the recording medium and reproducing thus detected and a copy process of detecting the reproduction information out of the recording medium and copying thus detected to another recording medium ;

a reproduction means for detecting the uncompressed information corresponding to the reproduction information which should be reproduced out of the recording medium and replaying thus detected when it is selected to execute the reproduction process by the selection means; and

a detection means for detecting the compressed information corresponding to the reproduction information which should be copied and providing thus detected to the copy process when it is selected to execute the copy process by the selection means.

18. A information recording medium with the information recording program according to Claim 17 recorded onto it so that the information recording program is readable by the recording computer.

19. A information recording medium with the information reproducing program according to Claim 18 recorded onto it so that the information reproducing program is readable by the reproducing computer.